

CLAIMS

1. A non-crosslinked flame-retardant resin composition comprising:

- (A) a non-crosslinked base resin which contains
 - a propylene resin containing 50 wt% or more of propylene monomer, and
 - a thermoplastic resin of which a melting point is 180°C or more,
- (B) a metallic hydrate;
- (C) a hindered phenolic antioxidant;
- (D) a sulfurous antioxidant; and
- (E) a metallic oxide.

2. The non-crosslinked flame-retardant resin composition according to claim 1, wherein (A) the non-crosslinked base resin contains the propylene resin by 40-90 wt% and the thermoplastic resin of which a melting point is 180°C or more by 60-10 wt%.

3. The non-crosslinked flame-retardant resin composition according to claim 1 or 2, wherein the thermoplastic resin of which a melting point is 180°C or more is polymethylpentene.

4. The non-crosslinked flame-retardant resin composition according to any one of claims 1 to 3, wherein 100 part weight of (A) the non-crosslinked base resin contains:

- 30-250 part weight of (B) the metallic hydrate;
- 0.3-15 part weight of (C) the hindered phenolic

antioxidant;

0.3-30 part weight of (D) the sulfurous antioxidant;
and

0.3-30 part weight of (E) the metallic oxide.

5. The non-crosslinked flame-retardant resin composition according to any one of claims 1 to 4, wherein (D) the sulfurous antioxidant is an imidazole compound.

6. The non-crosslinked flame-retardant resin composition according to any one of claims 1 to 5, wherein (E) the metallic oxide is an oxide of at least one metal selected from zinc (Zn), aluminum (Al), magnesium (Mg), lead (Pb) and tin (Sn).

7. The non-crosslinked flame-retardant resin composition according to any one of claims 1 to 6, wherein (B) the metallic hydrate is one of magnesium hydroxide and aluminum hydroxide.

8. A non-halogenous insulated wire comprising a conductor covered with the non-crosslinked flame-retardant resin composition according to any one of claims 1 to 7.

9. A wiring harness comprising:

one of a single wire bundle including only the non-halogenous insulated wires according to claim 8, and a mixed wire bundle including at least the non-halogenous insulated wires according to claim 8 and vinyl chloride insulated wires; and

a wiring-harness protective material for covering

the wire bundle, in which one of a non-halogenous resin composition, a vinyl chloride resin composition, and a halogenous resin composition other than the vinyl chloride resin composition is used as a base material.